Modulbezeichnung:	**Research Lab - Molecular Nanoscience (Nano-R-Lab)** (Research Lab - Molecular Nanoscience)	**15 ECTS**
Modulverantwortliche/r:	Rainer Fink	
Lehrende:	u.a., Julien Bachmann, Karl Mandel, Andreas Hirsch, Dirk Zahn, Franziska Gröhn, Rainer Fink, Henry Dube, Bernd Meyer, Dirk M. Guldi	

Startsemester: SS 2022	Dauer: 1 Semester	Turnus: halbjährlich (WS+SS)
Präsenzzeit: 345 Std.	Eigenstudium: 105 Std.	Sprache: Englisch

Lehrveranstaltungen:

Research lab project (23 SWS) fulltime in one of the working groups in the research field of Molecular Nanoscience

- Attendance at lab course is compulsory!
- Attendance at safety instructions is compulsory!
- A valid laboratory insurance is mandatory for participation in the lab course - see: www.laborversicherung.de

Research Module - Molecular Nanoscience (SS 2022, Praktikum, 23 SWS, Anwesenheitspflicht, Rainer Fink et al.)

Inhalt:

research lab project (23 SWS) fulltime in one of the research groups of Molecular Nanoscience

Lernziele und Kompetenzen:

Students ...

- are provided with the up-to-date practical and operative know-how suitable for future scientific and/or applied work in research institutes and nanoscience-labs
- get an advanced theoretical background and an overview of emerging trends in nano sciences
- look at living systems through the lens of basic chemical principles
- are prepared to work in interdisciplinary environment and participate in national and international development of forefront fields.

Verwendbarkeit des Moduls / Einpassung in den Musterstudienplan:

Das Modul ist im Kontext der folgenden Studienfächer/Vertiefungsrichtungen verwendbar:

[1] **Molecular Science (Master of Science): 3. Semester**
(Po-Vers. 2020w | NatFak | Molecular Science (Master of Science) | Research module | Research Lab - Molecular Nanoscience)

Studien-/Prüfungsleistungen:

Research Lab - Molecular Nanoscience (Prüfungsnummer: 30741)
Prüfungsleistung, Praktikumsleistung
Anteil an der Berechnung der Modulnote: 100%
weitere Erläuterungen:
Lab(PL): graded lab protocol of about 25 pages plus one raw data
Prüfungssprache: Englisch

Erstablegung: SS 2022, 1. Wdh.: WS 2022/2023
1. Prüfer: Nano-R-Lab (N70016)

Organisatorisches:

- Students have to register for the module (check registration periods)!
- Attendance in lab course and safety instructions are compulsory!
- Lab course is held as an in-class-course
- Lab course can be choosen in winter or summer term
- Time and place by appointment (in one of the involved working groups of Mol. Nano Sc.), please contact the supervisor directly

Bemerkungen:

Please note: This module will be offered for the first time from winter semester 2021/22 onwards in accordance with the examination regulations PO 2020w!